

**CLAIMS**

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1. A system for filtering fluids, which comprises a plant formed by membrane filters, in which the fluid to be filtered is fed into the plant first with the flow in a certain direction and then fed into the same plant with the flow reversed.

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2. A system for filtering fluids, according to claim 1, in which the plant comprises valves which regulate the fluid flow and which mix the flow which is fed into the plant from different points of same.

3. A system for filtering fluids, according to the above claims, in which the filters which make up the plant are directly connected to each other without the need for external piping.

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4. A system for filtering fluids, according to claim 3, in which the filters are connected to each other via their filterhead ends.

5. A filter used in the system for filtering fluids, according to claim 1, in which its structure allows the reversal of the flow.

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